## PATENT COOPERATION TREATY.

From the INTERNATIONAL SEARCHING AUTHORITY

To: MARIANNE FUIERER INTELLECTUAL PROPERTY/TECHNOLOGY LAW PO BOX 14329 RESEARCH TRIANGLE PARK, NC 27709	PCT  NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION			
RESEARCH TRIANGLE PARK, NC 27709  MAY 3 1	2005 (PCT Rule 44.1)			
	Date of Mailing (day/month/year)			
Applicant's or agent's file reference 4115-185 PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/US04/30066	International filing date (day/month/year)  16 September 2004 (16.09.2004)			
Applicant UNIVERSITY OF MARYLAND BIOTECHNOLOGY INSTITUTE				
The applicant is hereby notified that the international search report has been established and is transmitted herewith.  Filing of amendments and statement under Article 19: 1/21/05  The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):  When? The time limit for filing such amendments is normally two months from the date of transmittal of the				
where? Directly to the International Bureau of WIPO, 34, chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35  For more detailed instructions, see the notes on the accompanying sheet.				
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.				
3. With regard to the protest against payment of (an) addition	tional fee(s) under Rule 40.2, the applicant is notified that:			
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.  no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
4. Reminders				
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.				
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.				
	hs (or later) will apply even if no demand is filed within 19 months.			
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.				
Name and mailing address of the ISA/US  Mail Stop PCT, Attn: ISA/US  Commissioner for Patents  P.O. Box 1450  Alexandria, Virginia 22313-1450	Authorized officer  Jill Warden  Telephone No. 703-306-0661			

Facsimile No. (703) 305-3230 Form PCT/ISA/220 (April 2002)

(See notes on accompanying sheet)

#### PATENT COOPERATION TREATY

# **PCT**

#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 4115-185 PCT	FOR FURTHER ACTION		Form PCT/ISA/220 rre applicable, item 5 below.		
International application No. PCT/US04/30066	International filing date (day) 16 September 2004 (16.09.20		(Earliest) Priority Date (day/month/year) 17 September 2003 (17.09.2003)		
Applicant UNIVERSITY OF MARYLAND BIOTECHNOLOGY INSTITUTE					
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This international search report consists of a total of sheets.  It is also accompanied by a copy of each prior art document cited in this report.  1. Basis of the Report  a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).  b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.  2. Certain claims were found unsearchable (See Box No. II)  3. Unity of invention is lacking (See Box No. III)  4. With regard to the title,  the text is approved as submitted by the applicant.  the text has been established by this Authority to read as follows:					
	I, according to Rule 38.2(b), b		as it appears in Box No. IV. The applicant h report, submit comments to this Authority.		
	applicant.  Authority, because the applicant Authority, because this figure because the applicant th	nt failed to sugge	l l		

Form PCT/ISA/210 (first sheet) (January 2004)

### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/30066

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Box No	Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)		
		iny nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed international search was carried out on the basis of: naterial	
		a sequence listing	
		table(s) related to the sequence listing	
b.	format o	f material	
		in written format	
		in computer readable form	
c.	time of 1	iling/furnishing	
		contained in the international application as filed	
		filed together with the international application in computer readable form	
		furnished subsequently to this Authority for the purposes of search	
2.	filed or	tion, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been furnished, the required statements that the information in the subsequent or additional copies is identical to that in lication as filed or does not go beyond the application as filed, as appropriate, were furnished.	
3. Addit	ional com	ments:	
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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/30066

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Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This internat	ional search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. II	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Internat	ional Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on	Protest The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

#### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/30066

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A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : G01N 33/00					
US CL: 436/109, 164, 172	stional algorithmation and IDC				
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 436/109, 164, 172					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) STN					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category * Citation of document, with indication, where  A US 5,965,450 (KELADA) 12 October 1999 (12.10					
Further documents are listed in the continuation of Box C.	See patent family annex.				
Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the				
"A" document defining the general state of the art which is not considered to be of particular relevance	principle or theory underlying the invention				
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone				
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination				
"O" document referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the art				
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family				
Date of the actual completion of the international search	Date of mailing of the international search report				
09 January 2005 (09.01.2005)					
Name and mailing address of the ISA/US	Authorized officer				
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Jill Warden & Wetherfold				
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Telephone No. 703-306-0661				